



South Carolina Geographic Information Systems

State Outreach Planning Meeting

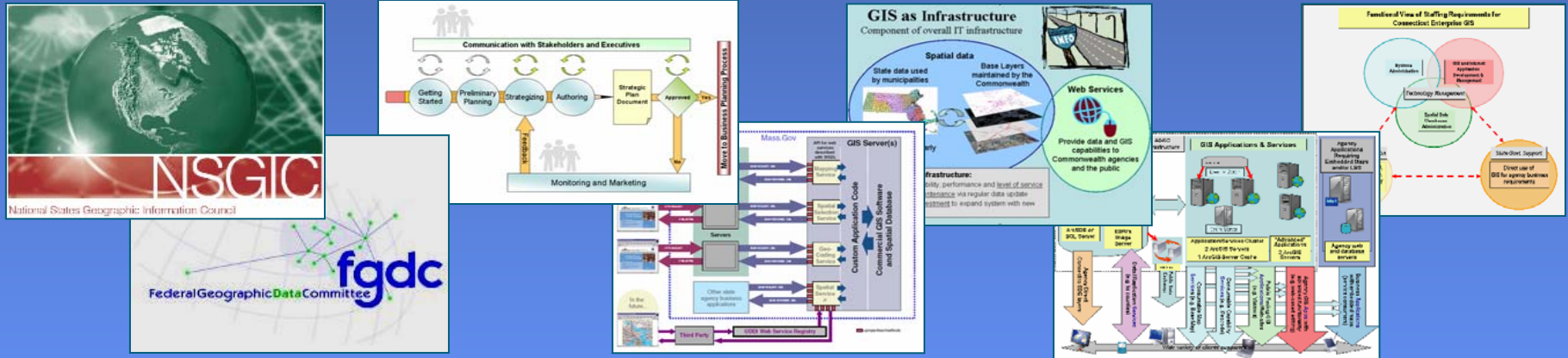
Monday, October 20th, 2008

Columbia, SC



Meeting Facilitator

Rich Grady
President, AppGeo



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The Planning Process Matters!

**“Plans are nothing;
planning is everything”**

Dwight D. Eisenhower

**“Plans are of little importance,
but planning is essential”**

Winston Churchill



<http://www.whitehouse.gov/history/presidents/de34.html>

http://en.wikipedia.org/wiki/Image:Winston_Churchill.jpg



- **Establish enduring relationships**
- **Recognize that planning is an ongoing activity**
 - **Recalibrate plans over time**

Agenda

Welcoming Remarks

PART ONE:

Overview and Background

- The national context: National Spatial Data Infrastructure (NSDI) and Fifty States Initiative
- Description of the current State Outreach project
 - Regional Stakeholder Workshops
 - Strategic Plan Components
 - Roles & Responsibilities

Networking Break

PART TWO:

- **Lessons-Learned from Other States (and Questions for You)**
- **Interactive Discussion on State Outreach to Regional Stakeholders**
 - Identification of regional issues
 - Prioritization among identified issues
 - Planning the Regional Stakeholder Workshops

The National Spatial Data Infrastructure (NSDI)

Relevant Federal Initiatives

- **The National Map (TNM)**
 - Compilation and integration of consistent, high-quality nationwide data sets from the best sources for 7 Framework Layers (and Structures)
 - Are your data sets part of it?
- **Geospatial One-Stop (GOS)**
 - Portal for access to nationwide data and metadata
 - A pointer to the best source (or is it?)
- **50 States Initiative**
 - Effort to catalyze creation of NSDI
 - Including the CAP grant funding this project and planning guidance
 - Collaboration between:
 - National States Geospatial Information Council (NSGIC)
 - Federal Geographic Data Committee (FGDC)

mySCmap - Interactive Viewer

Zoom



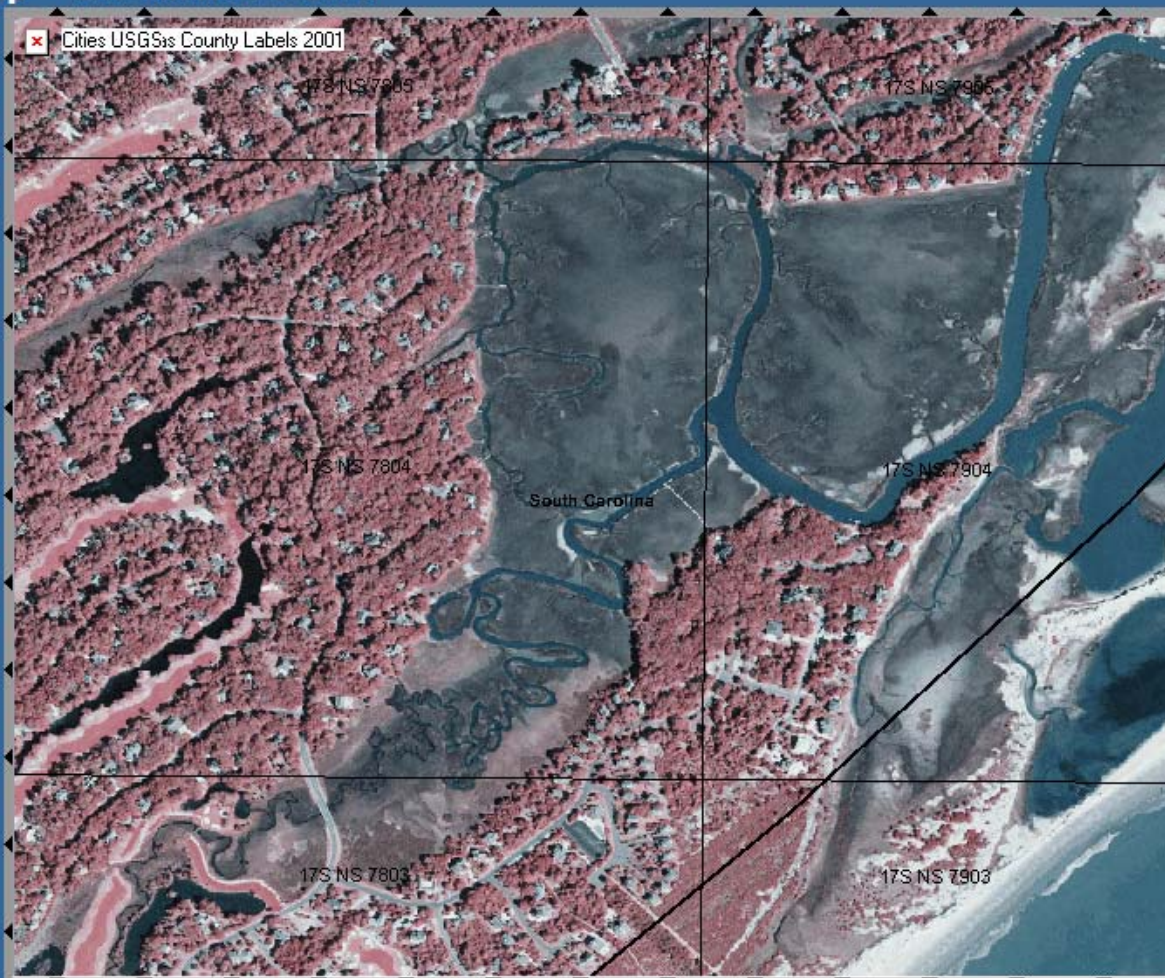
Query



Tools



Documents



- ☒ mySCMap-Contributors
- ☒ National Atlas State Labels
- ☒ National Atlas States
- ☒ National Atlas County Labels 2001
- ☒ National Atlas Counties
- ☒ Urban Area Public Data Coverage
- ☐ Urban Area View Only Data Coverage

▼ Hydrography

- ☐ National Atlas and NHD Streams
- ☐ National Atlas and NHD Waterbodies

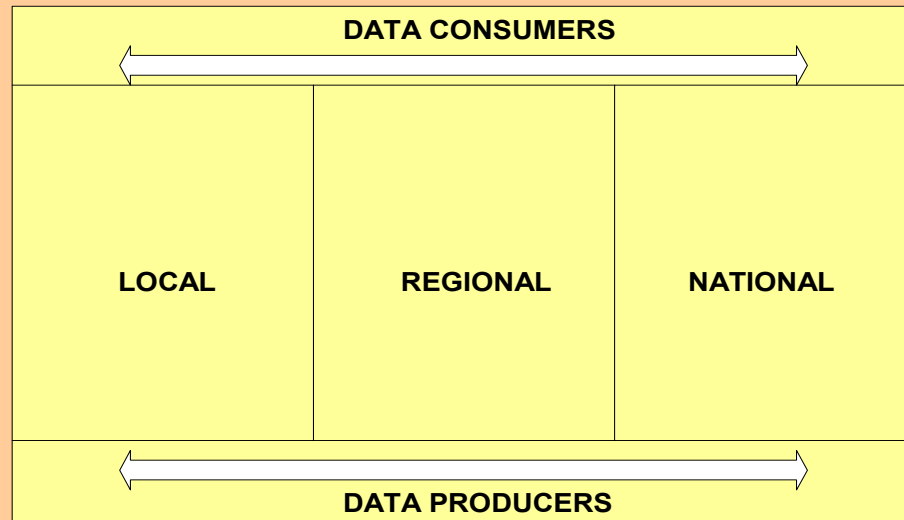
▼ Imagery

- ☒ SCDNR - DOQQ 2006 (CIR)
- ☐ SCDNR - DOQQ 1999 (CIR)
- ☐ SCDNR - DOQQ 1994 (CIR)
- ☐ SCDNR - DRG 1:24,000 Scale
- ☐ DOQQ Color Mosaicked Image
- ☐ DOQQ Black and White Mosaicked Image (East)
- ☐ LANDSAT7

► Elevation

NSDI Goal: Cross-Governmental Data Sharing

National Spatial Data Infrastructure (NSDI)



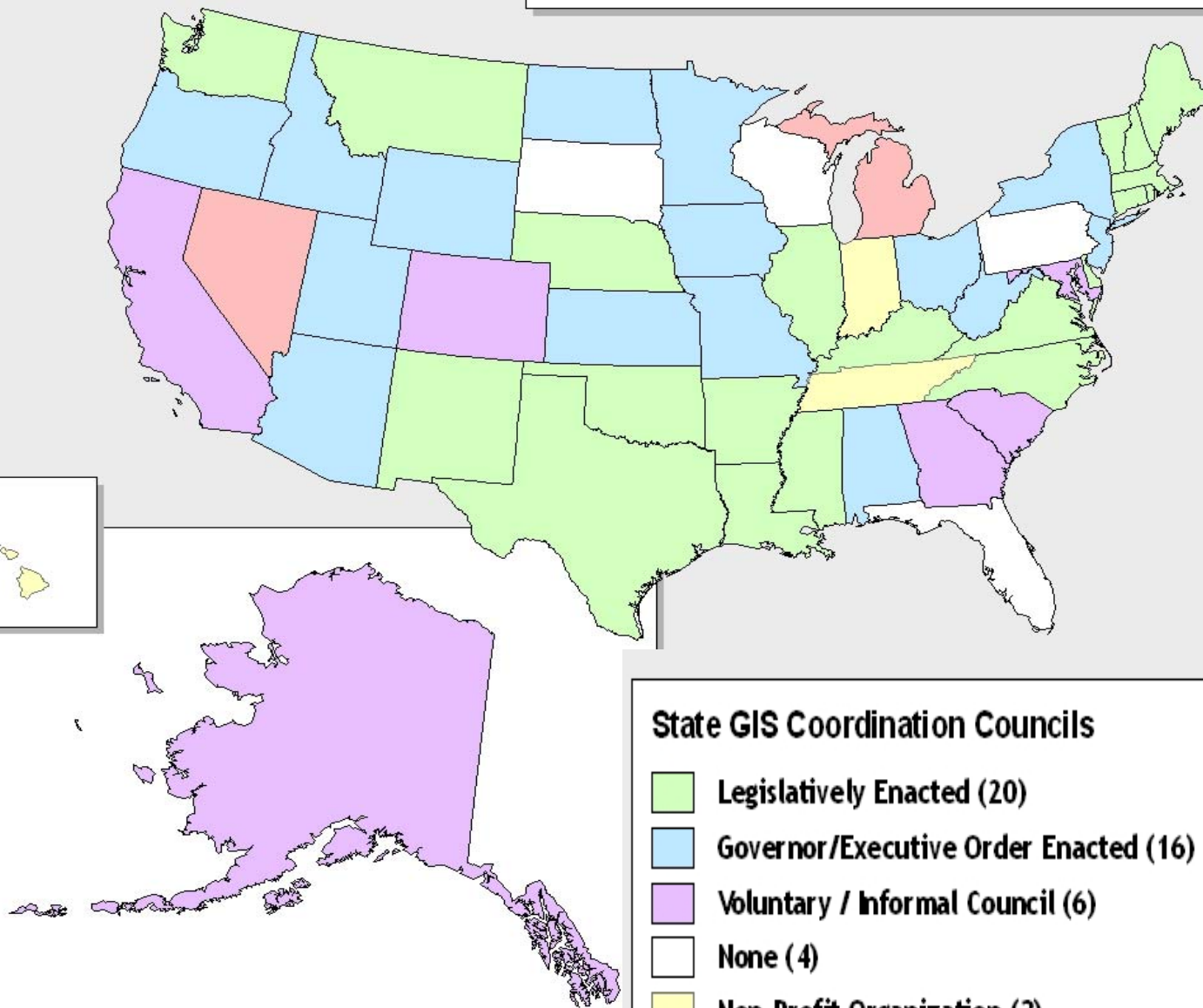
“Supply Chain” View

NSDI Framework Layers







- 1) Geodetic Control
- 2) Cadastral (parcels)
- 3) Political Boundaries
- 4) Hydrography
- 5) Imagery (orthos)
- 6) Elevation
- 7) Transportation
(e.g., Roads, Air, Rail, Transit, Inland waterways, etc.)

... and Structures

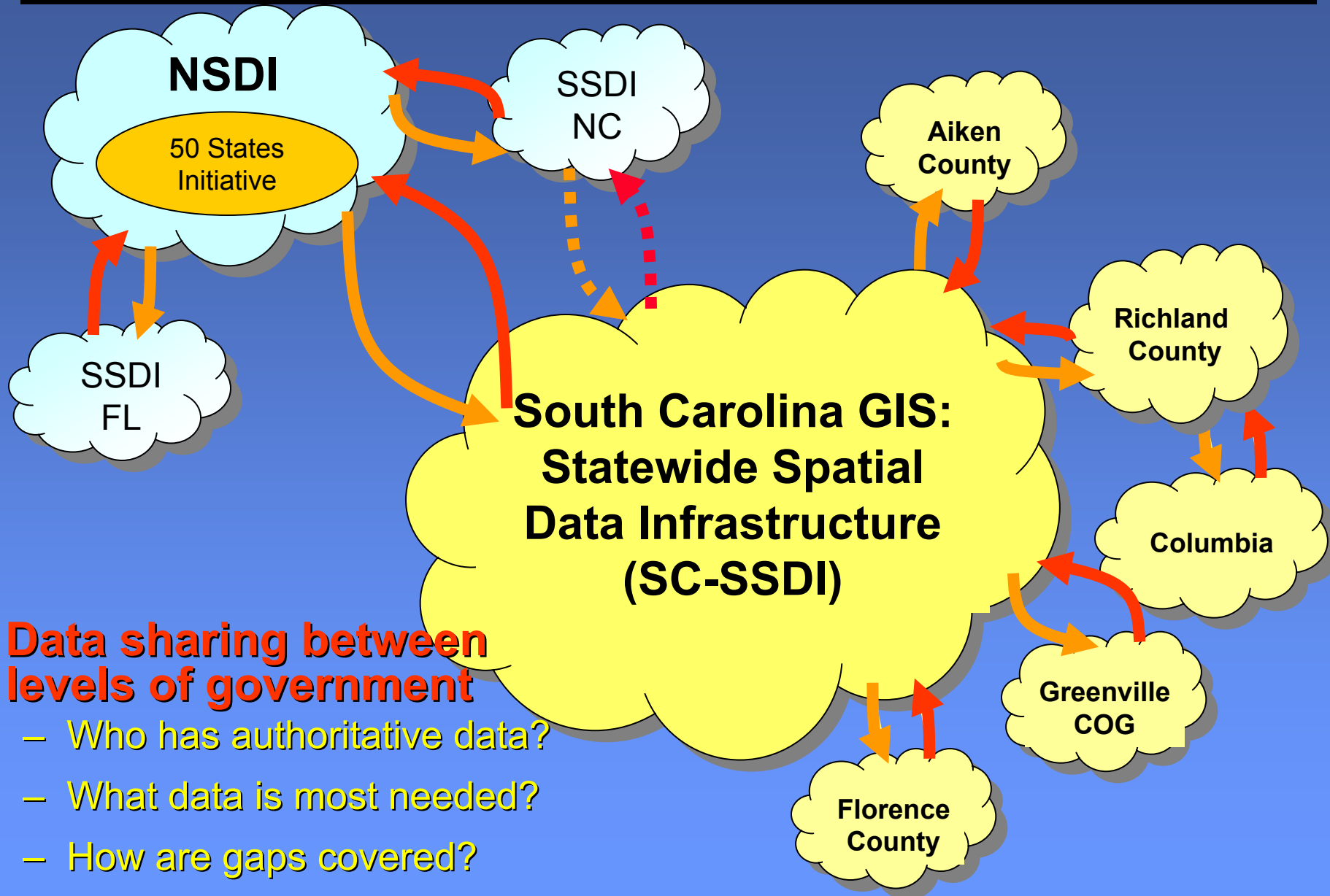
State GIS Coordination Councils



State GIS Coordination Councils

-  Legislatively Enacted (20)
-  Governor/Executive Order Enacted (16)
-  Voluntary / Informal Council (6)
-  None (4)
-  Non-Profit Organization (3)
-  State Mapping Advisory Council (2)

Statewide Spatial Data Infrastructures & NSDI





South Carolina Geographic Information Systems

[Calendar of Events](#) [Data](#) [Document](#) [GIS Resources](#) [Make-A-Map](#) [Projects & Opportunities](#) [SCGIS Home](#)

Geographic Information Council Members

GIS Viewers



Get the ESRI ArcGIS Explorer a way to view and share information geographically. **ArcGIS Explorer is free** and freely distributable, making it a great way to share your maps with others.

[ESRI ArcGIS Support](#)

[Intergraph Support](#)

Data

This portion of the site is intended to act as a general GIS data download/accessible data from other agencies throughout the state. This site is **still under construction**, this section shall include multiple organizations download locations. If you do not find a particular data set, please [contact us](#) and we will assist you.

If you are a South Carolina organization/agency and would like to be added to the list for download/access - please [contact us](#). We are interested in making data as available as possible. You do not have to be a state agency to be added here.

- [SC Geodetic Survey](#)
- [SC Department of Commerce](#)
- [SC Department of Health and Environmental Control](#)
- [SC Department of Natural Resources](#)
<http://www.dnr.sc.gov/GIS/qisdownload.html>
- [SC Department of Probation Parole and Pardon Services](#)
- [SC Department of Transportation](#)
- [SC Forestry Commission](#)
- [SC Office of Research and Statistics](#)

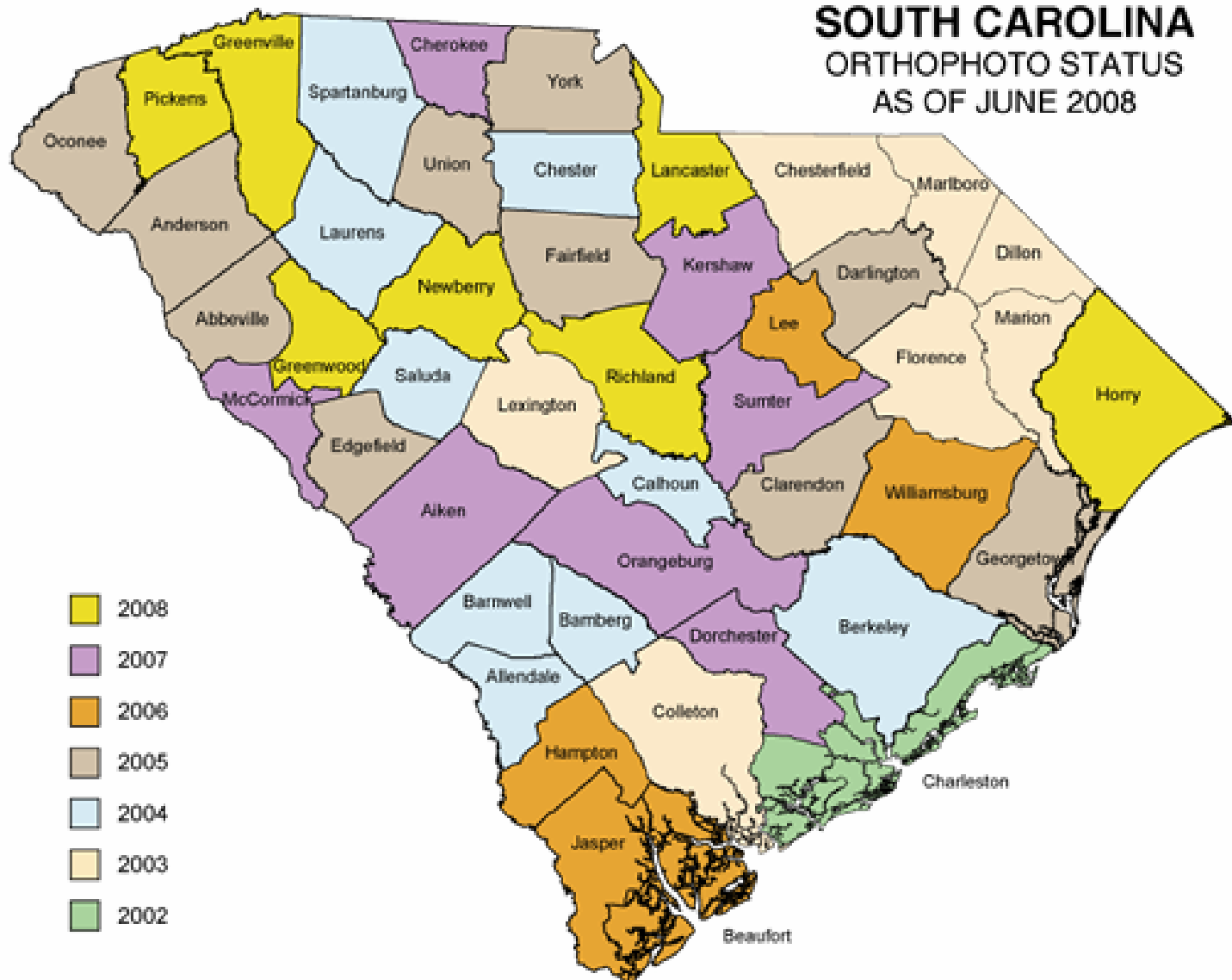
Department of Health and Environmental Control

The links below will take you to the download location for DHEC. Most of the layers are available for immediate download via one or more formats - ArcView Shapefiles, File GeoDatabase, or Google Earth File (KMZ). A few of the layers require FOI requests. If required, it will indicate so in the downloads section.

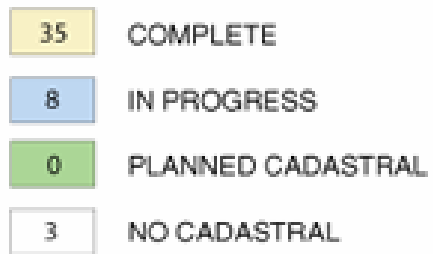
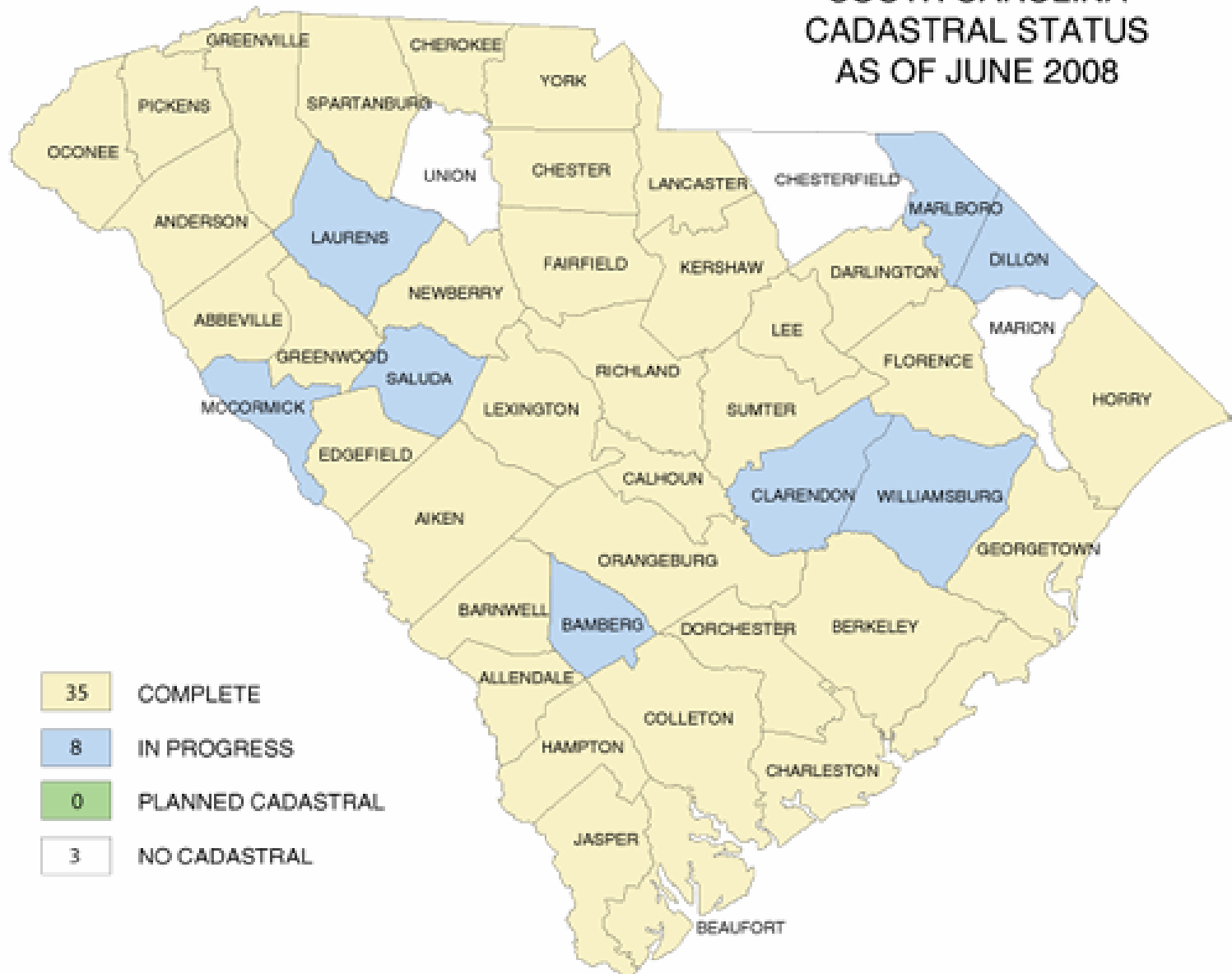
The listing of the layers is provided here to allow for text-based searches of available data layers while on this site in order to assist you with finding what you need.

Layer Name (click to download)	Data Source
Air Monitoring Stations	Bureau of Air Quality
Air Regulated Facilities	Bureau of Air Quality
Inactive Air Monitoring Stations	Bureau of Air Quality
401 Public Notices	Bureau of Water
Ambient Ground Water Quality Stations	Bureau of Water
Beach Monitoring Stations	Bureau of Water
Capacity Use Wells	Bureau of Water
Fish Advisory (Polygonal)	Bureau of Water
Fish Advisory Streams	Bureau of Water
Fish Tissue Monitoring Sites	Bureau of Water
Macroinvertebrate Stations	Bureau of Water
Modeled Stream Segments	Bureau of Water
National Pollutant Discharge Elimination System	Bureau of Water
Nationwide Water Permits	Bureau of Water
Navigable Lakes	Bureau of Water
Navigable Streams	Bureau of Water
Navigable Water Permits	Bureau of Water

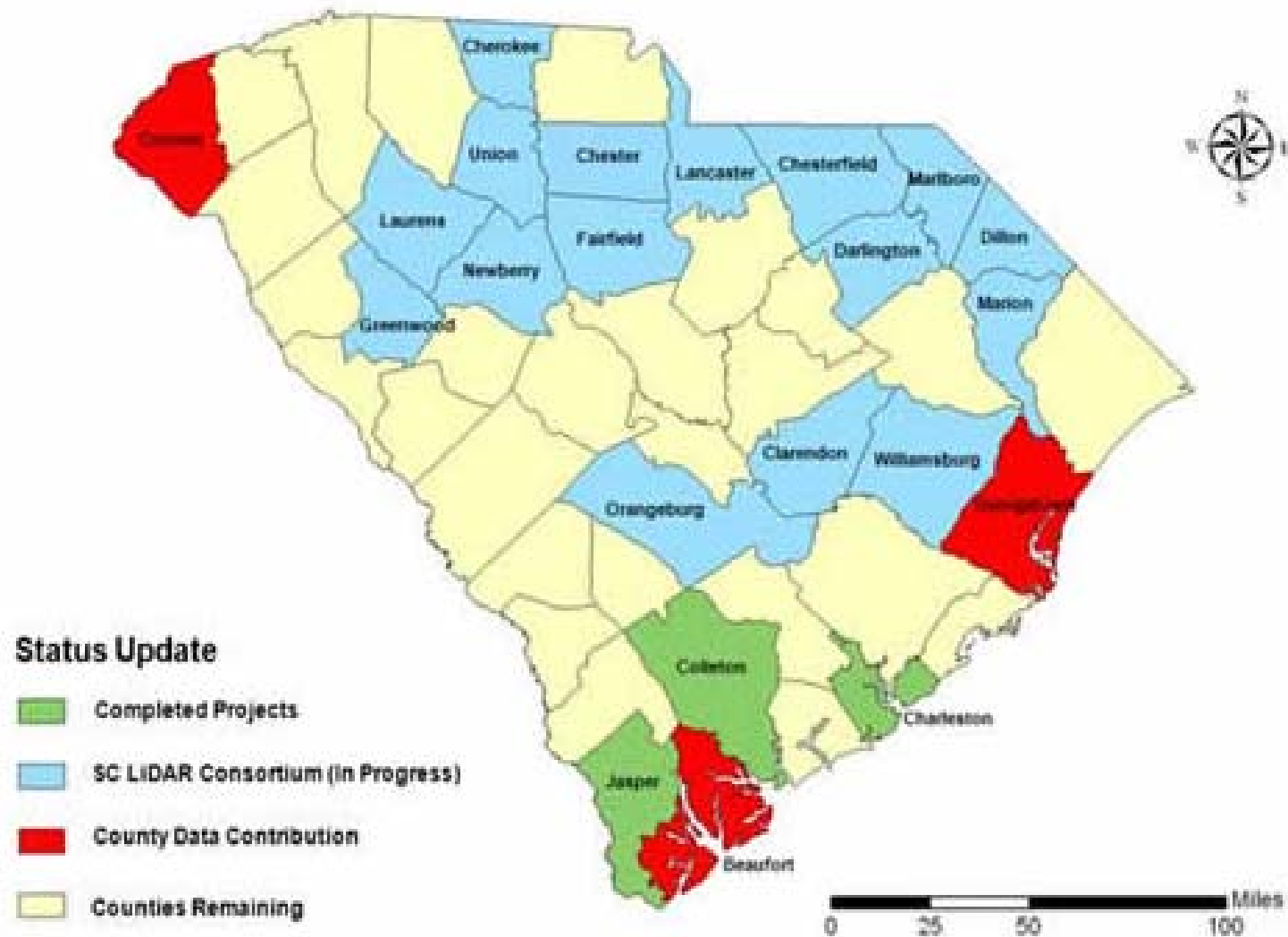
SOUTH CAROLINA **ORTHOPHOTO STATUS** **AS OF JUNE 2008**



SOUTH CAROLINA CADASTRAL STATUS AS OF JUNE 2008



Statewide LiDAR Project Status



Fifty States Initiative: *Nine (9) criteria of a successful statewide GIS program*

1. A full-time, paid coordinator position is designated and has the authority to implement the state's business and strategic plans
2. A clearly defined authority exists for statewide coordination of geospatial information technologies and data production
3. The statewide coordination office has a formal relationship with the state's Chief Information Officer (CIO)
4. A champion (politician, or executive decision-maker) is aware and involved in the process of geospatial coordination
5. The responsibilities for developing the National Spatial Data Infrastructure and a State Clearinghouse are assigned
6. The ability exists to work and coordinate with local governments, academia, and the private sector
7. The sustainable funding sources exist to meet project needs
8. GIS Coordinators have the authority to enter into contracts and become capable of receiving and expending funds
9. The Federal government works through the statewide coordinating authority

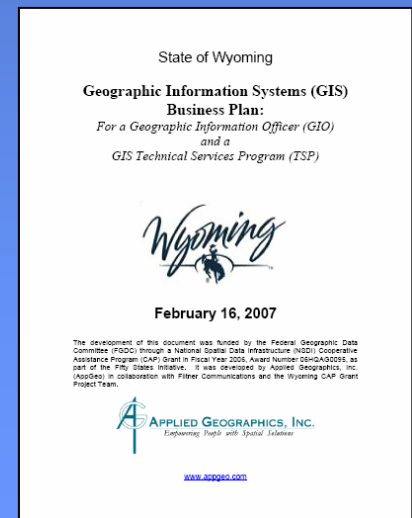
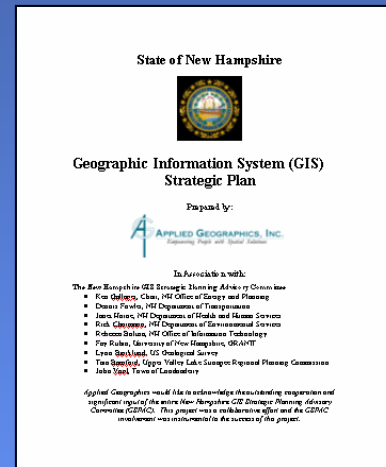
Fifty States Initiative & Advancing NSDI

- **FGDC** wants to create a National Spatial Data Infrastructure
- Jointly with NSGIC, FGDC came up with **Nine Criteria for Success** at the State-level
- State Spatial Data Infrastructure (**SSDI's**) are critical to success of NSDI and **are intrinsically important to states!**
- Strategic **planning will aid process** of establishing effective SSDIs
- **FGDC will Support** Strategic Planning via CAP grants
- In partnership with **NSGIC** they created **strategic & business planning templates**
 - “One size does not fit all...”
 - “But, the table of contents can be similar...”

The NSGIC Templates

The one-two punch of Strategic & Business Plans

- One Strategic Plan, potentially **many** Business Plans
- **Strategic Plan:** The “big picture” and overall context
 - **What** and **Why**
 - Vision & Goals
 - Strengths & Weaknesses
 - Opportunities & Threats
- **Business Plan(s)**
 - **How, When, and How Much**
 - Implementation details for achieving Strategic Goals
 - Presented as a business case
 - Typically come after approval of Strategic Plan



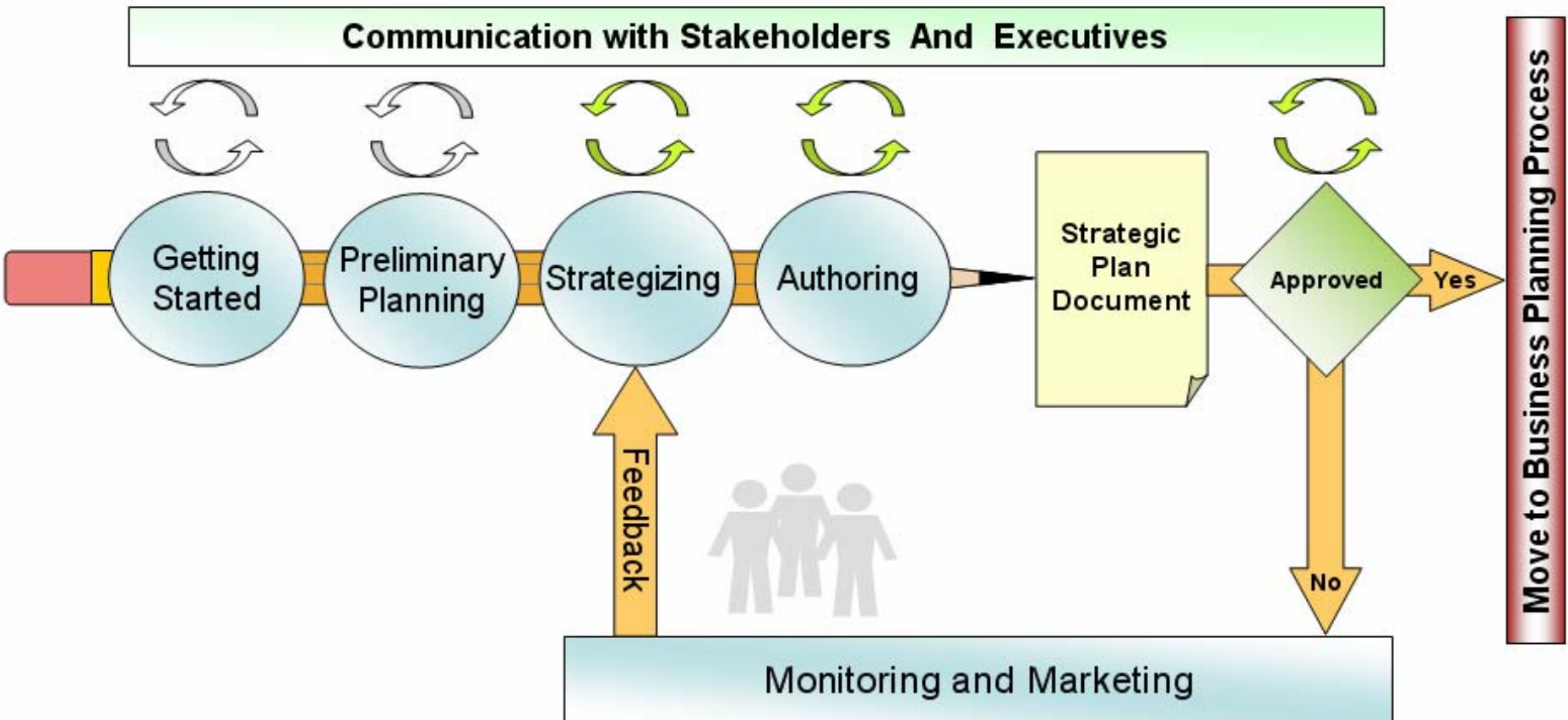
Applying the NSGIC Templates

- Strategic and Business Plans are **'living' documents** (i.e., planning is a process, and plans should evolve to **account for changing conditions**)
- Case studies of actual experiences can help **make the business case** (especially if quantifiable, but also if they tell a meaningful story)

Strategic Planning Process



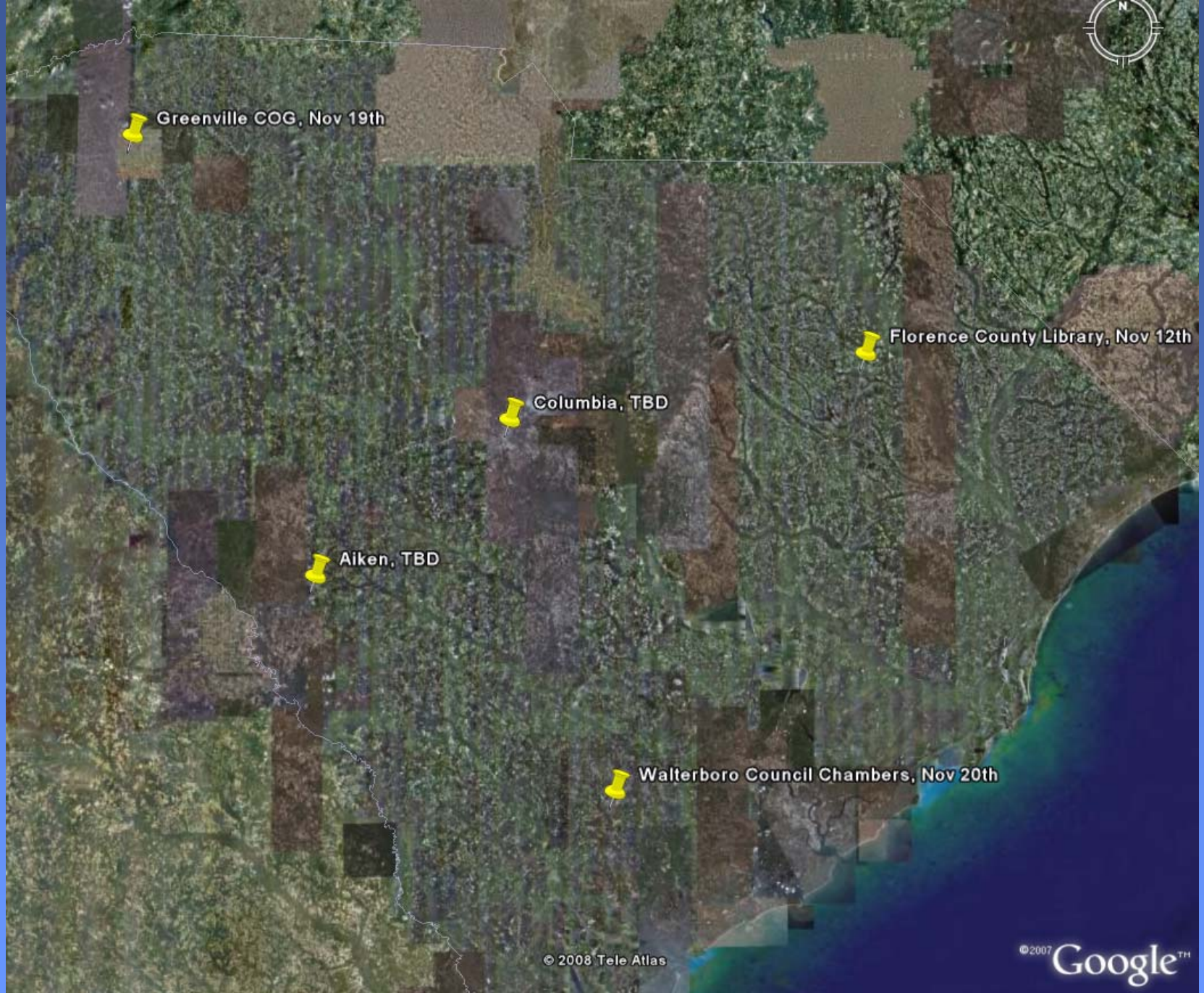
NSGIC Strategic Planning Process Map



SC GIS State Outreach:

Project Overview

- **Kickoff Communication & Coordination**
- **Regional Workshop Planning Meeting**
- **Several One-On-One Interviews**
- **On-line Survey Questionnaire**
- **Five (5) Regional Stakeholder Meetings**
- **Preliminary Findings & Recommendations**
- **Ongoing, Iterative Interaction with SC GIS**
- **Development of a Strategic Plan**



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SC GIS State Outreach Survey



[Exit this survey](#)
>>

South Carolina Strategic Plan Survey v1

Thank you in advance for taking the time to complete this brief survey on GIS activity in South Carolina as part of the statewide GIS Strategic Planning project.

This brief, survey is designed to take approximately 20 minutes of your time. Please answer the questions below using your best judgment and the information that you have available. None of the questions are mandatory so you can skip questions that aren't relevant or that you aren't comfortable answering. Please use the last question to let us know if you have any suggestions for improving GIS in South Carolina, or for improving this survey.

Once again, thank you for your participation in the statewide GIS strategic planning process.

1. Please, tell us about yourself.

Name:	<input type="text"/>
Organization:	<input type="text"/>
Title:	<input type="text"/>
Address:	<input type="text"/>
City/Town/Region:	<input type="text"/>
State/Province:	<input type="text" value="- select state -"/>
ZIP/Postal Code:	<input type="text"/>
	<input type="text"/>

2. Which category best describes your organization?

- | | |
|--|--|
| <input type="radio"/> Municipality pop: <1,000 | <input type="radio"/> Regional Planning Organization |
| <input type="radio"/> Municipality pop: 1,000-10,000 | <input type="radio"/> Tribal |

Roles & Responsibilities

- AppGeo: **Facilitator & Scribe**
 - Facilitate planning process
 - To keep the ball rolling
 - Lend our experience
 - Author the documents
- SC Strategic Plan Project Team: **Direction & Ideas**
 - It's ***your plan***
 - Identify issues and priorities
 - Identify the target audience

BREAK

What are other CAP Grant recipients doing?

Priorities vary from State-to-State

- Develop and Sustain Maintenance of 'Statewide' Data Layers
 - The **Massachusetts , Kansas, and New York** plans are focused on key data layers and data infrastructure for sharing, e.g.:
 - Orthos
 - Parcels
 - Elevation
 - Addresses
 - Critical infrastructure

What are other CAP Grant recipients doing?

Priorities vary from State-to-State

- Improve GIS Governance
 - The **New Hampshire, Wyoming, Connecticut, and Colorado** plans are centered on the creation of a Geospatial Information Officer (GIO) role and a GIS Office, **Pennsylvania** is focused on establishing a true Statewide Council
- Capitalize on New Technology
 - The **Rhode Island and Utah** efforts are focused on building a multi-departmental enterprise architecture with data warehousing and web services

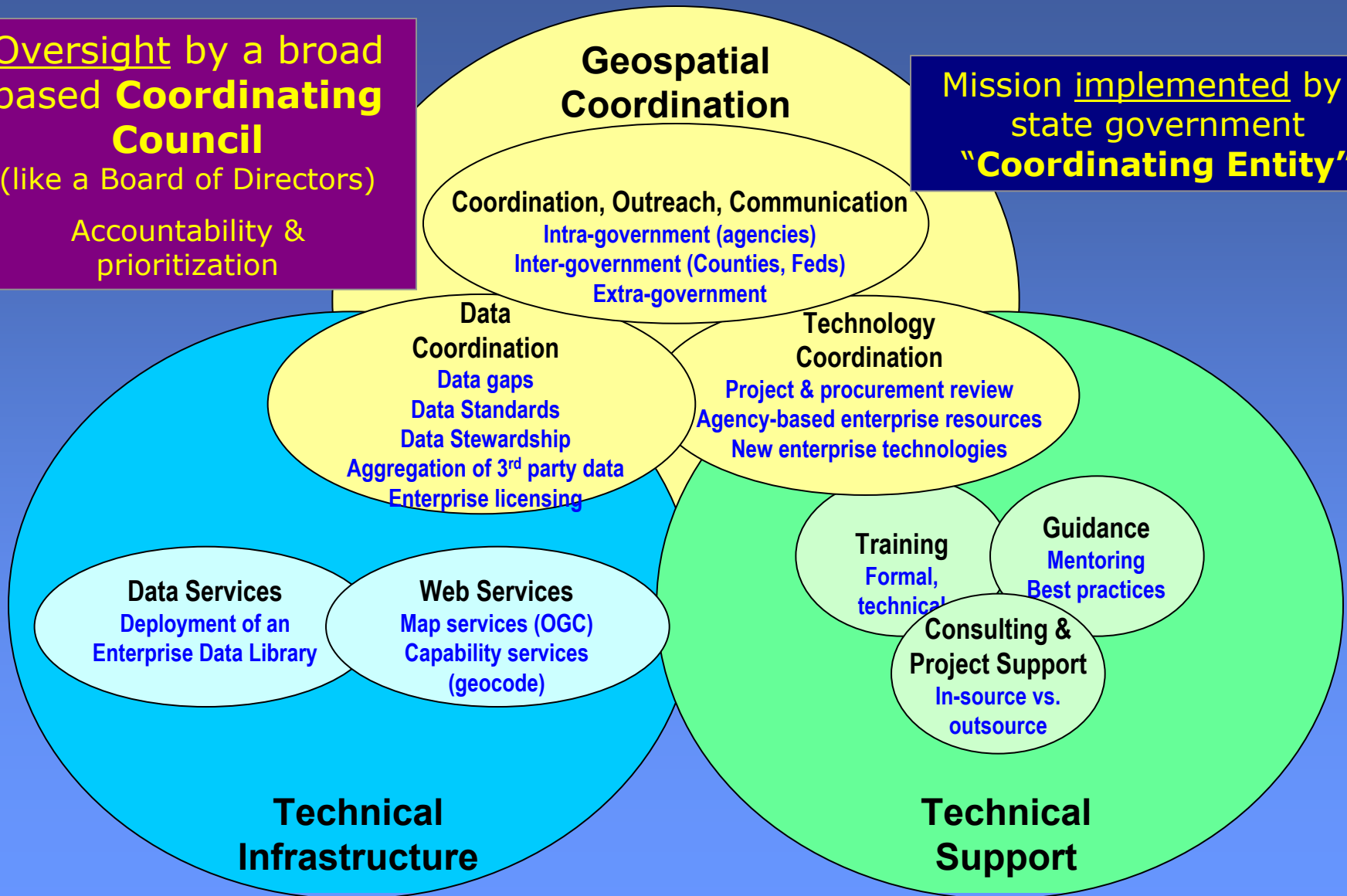
Minnesota's Emerging Model for GIS Coordination

Oversight by a broad based **Coordinating Council**

(like a Board of Directors)

Accountability & prioritization

Mission implemented by a state government **"Coordinating Entity"**



Lessons-Learned in Other States On GIS Strategic and Business Planning Efforts

- Identify the **high-visibility issues** where GIS coordination activities can have a positive impact (e.g., Smart Growth, Public Safety, and Education, to name a few)
 - What resonates in South Carolina?
- Do not underestimate the importance of **high-level support** and input **early in the process** (i.e., business/departmental sponsor and political/legislative sponsor)
 - Who are the champions in SC?

Lessons-Learned in Other States

On GIS Strategic and Business Planning Efforts

- When states with a mature GIS operation engage in strategic planning it is less about “discovering” what is required and it is more about “articulating” the requirement and **building a consensus** for an approach or solution
- Creating an **intergovernmental Strategic Planning Committee** to oversee the process and take ownership of the plan can be helpful in demonstrating consensus
 - This may help in South Carolina, to avoid a state agency-centric approach

What might the future look like in SC?

- Will there be a Statewide Spatial Data Infrastructure (SSDI) for:
 - Keeping data current (i.e. **data maintenance**)?
 - Removing barriers to **data sharing**?
 - Identifying **priorities** for investment and obtaining sustainable **funding**?
- Is there a common “**vision**” to achieve an SSDI?
- Do you need one (and if so what is it)?

Content for Regional Stakeholder Meetings

- **What message to convey?**
 - Some education on project context and SSDI/NSDI
 - Is there a “vision that can be shared”?
- **What issues to present?**
 - Data licensing?
 - Government-to-government data sharing?
- **Survey Results (Compiled as we go)**

What questions to ask regional stakeholders?

- Feedback on the status quo
 - Strengths?
 - Weaknesses?
- Seek concurrence and prioritization of a slate of initiatives
 - Data Sharing Agreements?
 - Data Acquisition Agreements?
- What improvements are needed?
- What are the barriers to success?

Remember:
**The process is as
important as the plan!**



Thank you
Rich Grady
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